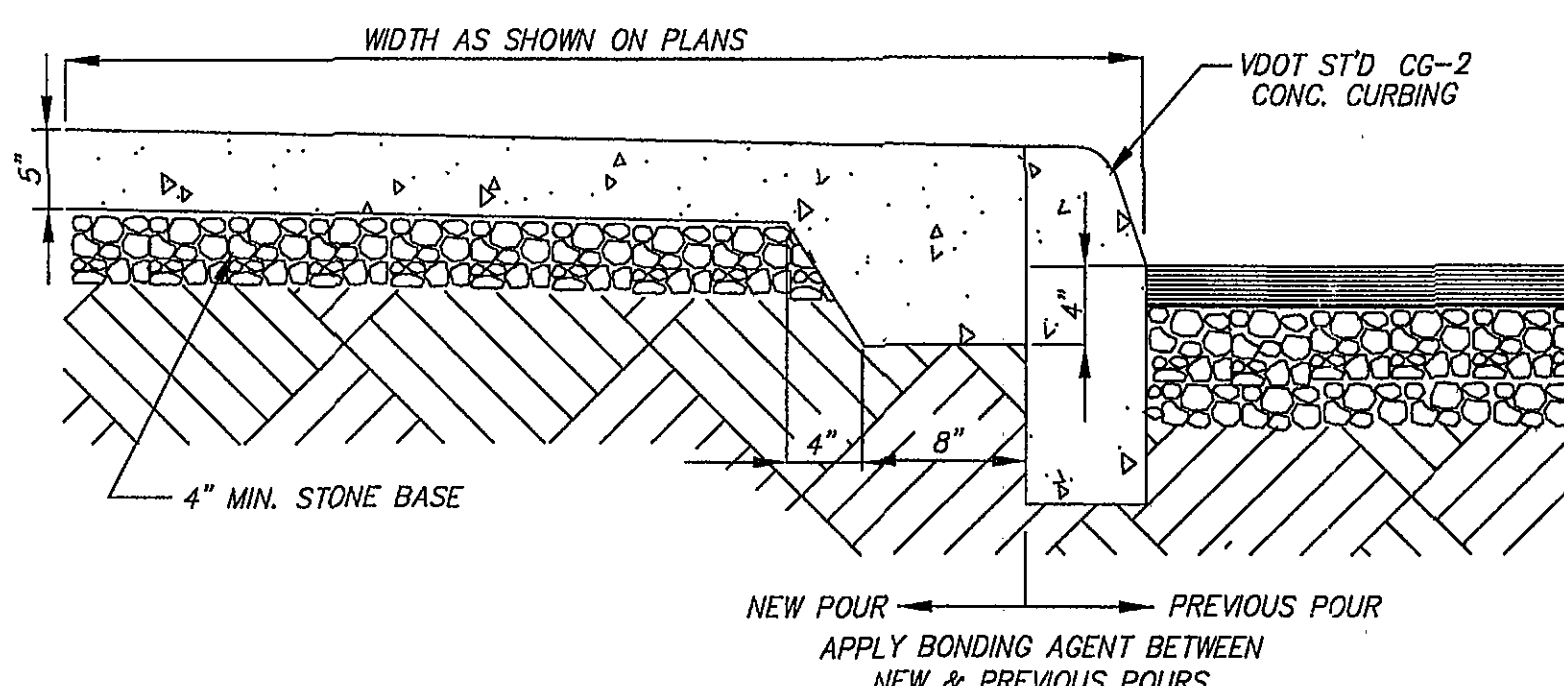
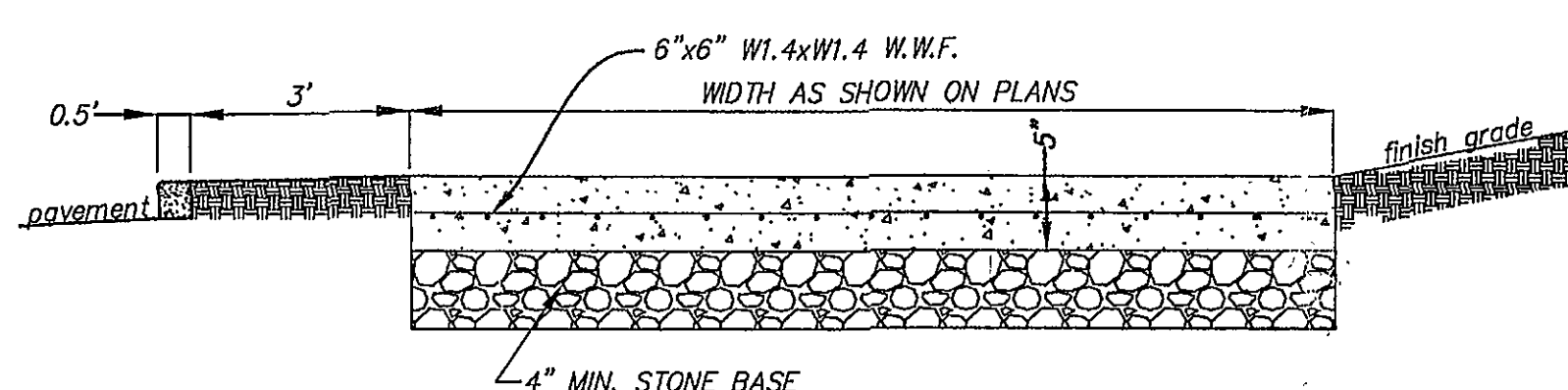


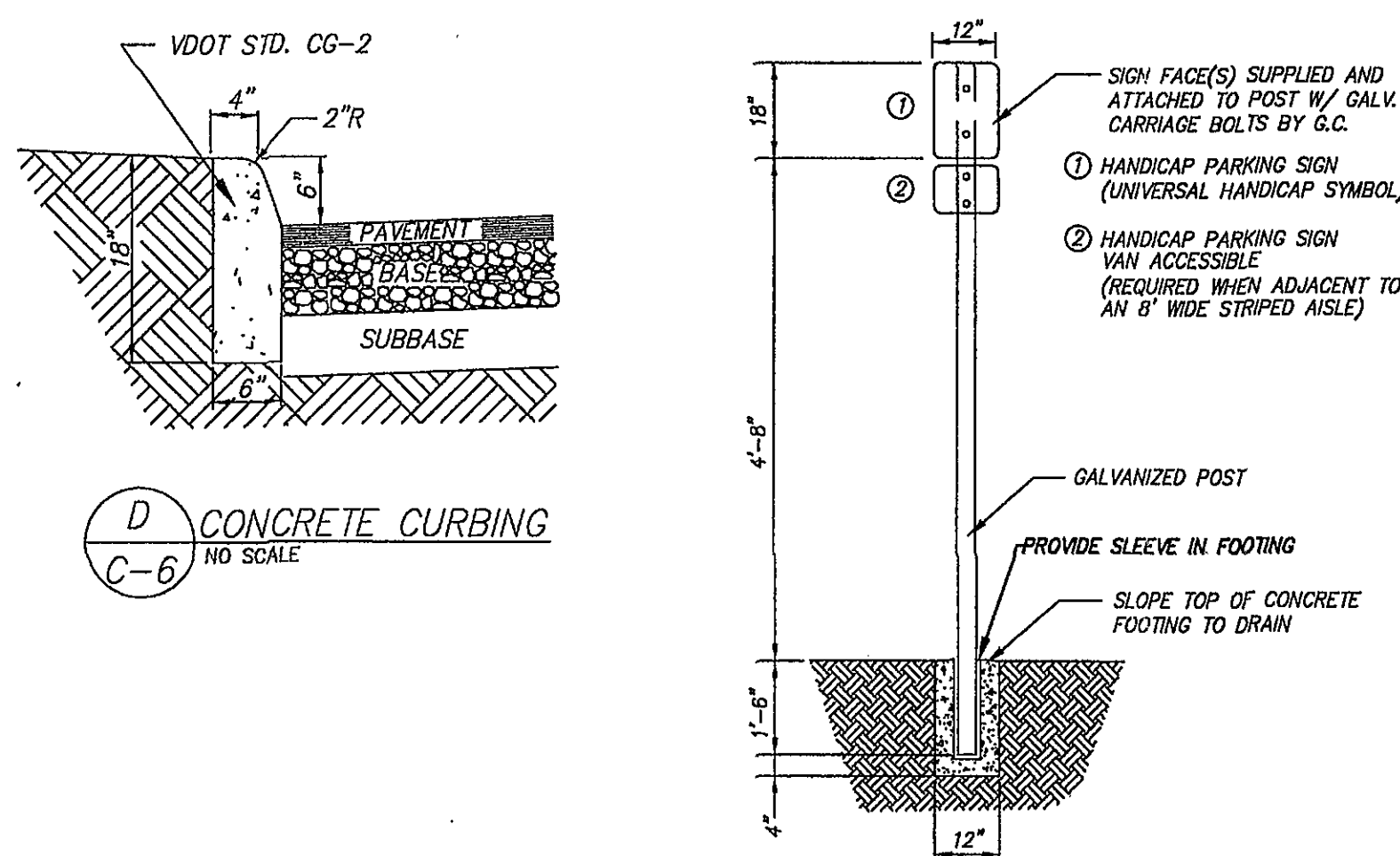
(A) HEAVY-DUTY PORTLAND CEMENT CONCRETE PAVEMENT
C-6 NO SCALE



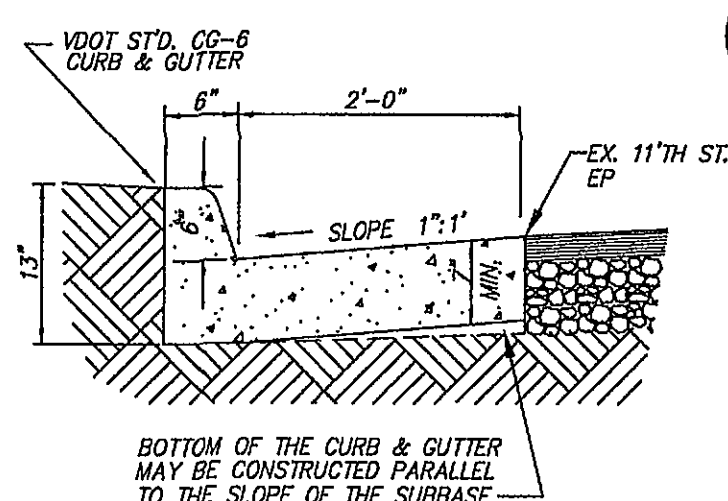
(B) CONCRETE SIDEWALK
C-6 NO SCALE



(C) CONCRETE SIDEWALK
C-6 NO SCALE



(E) POST-MOUNTED SIGN
C-6 NO SCALE



(F) CG-6-CONCRETE CURB AND GUTTER
C-6 NO SCALE

SOIL EROSION CONTROL NARRATIVE

PROJECT DESCRIPTION. THE PURPOSE OF THIS PROJECT IS THE CONSTRUCTION OF A NEW FIRE STATION ON A 1.04 ACRE PARCEL AT THE NORTHEAST CORNER OF WILLIAMSON ROAD AND BIRCHLAWN AVE. NW.

EXISTING SITE CONDITIONS. THE EXISTING SITE IS APPROXIMATELY 70% WOODED WITH THE REMAINING PORTION BEING IN ESTABLISHED GRASS. THE MAJORITY OF THE SITE IS APPROXIMATELY FIVE (5) FEET BELOW THE EDGE OF PAVEMENT OF WILLIAMSON ROAD. DRAINAGE PATTERNS ON THE SITE ARE SUCH THAT THE EASTERN AND SOUTHERN PORTION OF THE SITE DRAIN TO A CURB INLET IN A SUMP ALONG BIRCHLAWN AVE. THE SLOPED WESTERN PORTION OF THE SITE DRAINS TO AN EXISTING LOW AREA WHICH PREVENTS THIS WATER FROM LEAVING THE SITE.

ADJACENT PROPERTY. THE SITE IS BOUNDED ON THE WEST BY WILLIAMSON ROAD, ON THE NORTH BY PROPERTY OWNED BY THIRTY THREE EAST, INC., JI QUI & MEI YU XIAO, AND AFFORDABLE EFFICIENCY INNS, INC. THE PROPERTY IS BOUNDED TO THE EAST BY LANFORD STREET N.W. AND TO THE SOUTH BY BIRCHLAWN AVE.

CRITICAL AREAS. THE PRIMARY LOCATION FOR POSSIBLE RUNOFF WILL BE TO THE EXISTING CURB INLET IN BIRCHLAWN AVE. EROSION CONTROL MEASURES ARE SPECIFIED WHICH ARE INTENDED TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THIS INLET. THE CONTRACTOR WILL UTILIZE THE CONSTRUCTION ENTRANCE SPECIFIED ON THE PLANS. FILL MATERIAL WILL NEED TO BE BROUGHT ONTO THE SITE TO REACH PROPOSED GRADES.

OFF-SITE AREAS. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING FILL MATERIAL FROM AN OFF-SITE BORROW AREA. **IT IS THE CONTRACTORS EXPRESS RESPONSIBILITY TO OBTAIN AN EROSION AND SEDIMENT CONTROL PERMIT, FROM THE APPROPRIATE APPROVING AUTHORITY, FOR ANY OFF-SITE BORROW AREAS TO BE UTILIZED FOR THIS PROJECT.

SOILS. THE SOILS MATERIAL AS IDENTIFIED BY THE U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE, GENERAL SOIL MAP AS 'URBAN LAND'. URBAN LAND HAS A VARIABLE RUNOFF POTENTIAL DUE TO HIGHLY VARIABLE SOIL TYPES AND CONDITIONS IN THESE AREAS.

EROSION AND SEDIMENT CONTROL MEASURES:

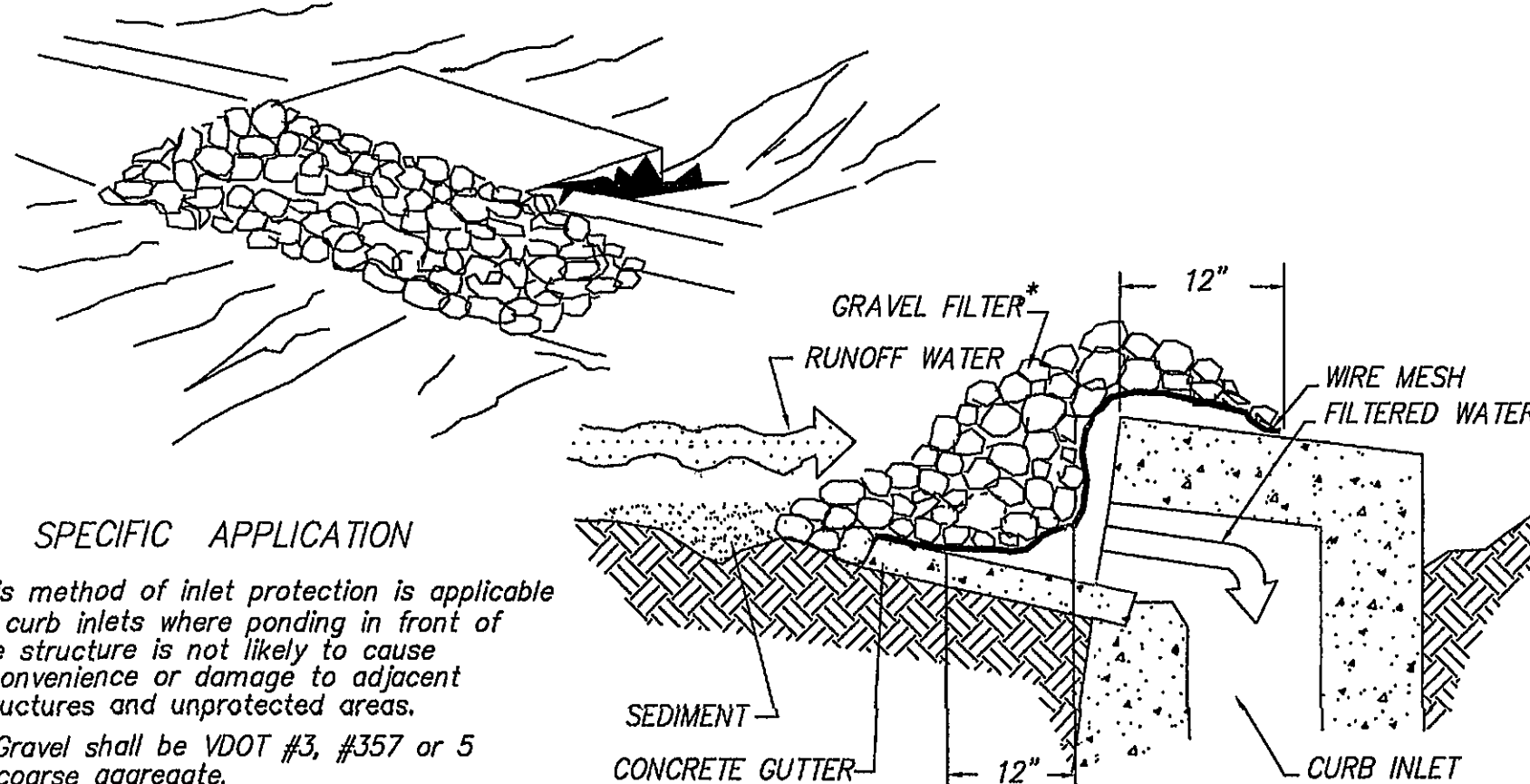
UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE "VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK", THIRD EDITION.

- PRIOR TO ANY WORK BEING PERFORMED ON THE PROPOSED PROJECT, A TEMPORARY CONSTRUCTION ENTRANCE SHALL BE PROVIDED TO THE SITE.
THE ENTRANCE SHALL BE COMPOSED OF GRADED 3" STONE TO A MINIMUM DEPTH OF 6". THE ENTRANCE SHALL ALSO RUN FOR A MINIMUM DISTANCE OF NOT LESS THAN 70' FROM THE EXISTING PAVEMENT EDGE. THE ENTRANCE SHALL BE CONTINUALLY MAINTAINED, INSPECTED, REPAIRED, OR OTHERWISE BE KEPT IN GOOD FUNCTIONAL CONDITION THROUGHOUT THE EXTENT OF THE WORK ON SITE.
- REGARDLESS OF FUTURE DEVELOPMENT PLANS, THE CONTRACTOR SHALL IMMEDIATELY INSTALL EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE PLANS.
- AFTER THE CONTROL DEVICES ARE FOUND TO BE FUNCTIONAL, THE CONTRACTOR SHALL IMMEDIATELY PROCEED WITH GRUBBING AND FILL PLACEMENT. DENUDE AREAS INDICATED ON THESE PLANS TO RECEIVE PERMANENT SEEDING SHALL BE SEEDDED WITHIN SEVEN (7) DAYS AFTER FINAL GRADING, AND SHALL BE IN STRICT ACCORDANCE WITH THE "VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK", THIRD EDITION.
- IN GENERAL, ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL. IN PARTICULAR:
A. THE CONSTRUCTION ENTRANCE SHALL BE MAINTAINED IN A CONDITION TO PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY.
B. ALL SILT FENCE BARRIERS AND INLET PROTECTIONS SHALL BE CHECKED REGULARLY FOR UNDERMINING AND SEDIMENT BUILDUP.
C. ALL SEEDED AREAS WILL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHALL BE FERTILIZED AND RESEEDDED AS NEEDED.

STORM WATER RUNOFF. A BIOTENTION BASIN POROUS CONCRETE PAVEMENT AND A RAINWATER HARVESTING SYSTEM ARE ALL PROPOSED FOR THIS SITE WHICH WILL REDUCE THE OVERALL POST-DEVELOPED FLOWS TO PRE-EXISTING CONDITIONS OR LESS AS WELL AS PROVIDE A REDUCTION IN THE TOTAL PHOSPHOROUS LOAD EXITING THE SITE.

GENERAL COMMENTS:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES.
- NO WORK SHALL PROCEED ON SITE UNTIL THE PROPER AUTHORIZATION OR PERMIT HAS BEEN OBTAINED FROM THE CITY OF ROANOKE.
- CALDWELL WHITE ASSOCIATES DOES NOT GUARANTEE THE COMPLETION OR QUALITY OF PERFORMANCE OF THE CONTRACTS BY CONTRACTORS OR OTHER THIRD PARTIES.



SPECIFIC APPLICATION

This method of inlet protection is applicable at curb inlets where ponding in front of the structure is not likely to cause inconvenience or damage to adjacent structures and unprotected areas.

* Gravel shall be VDOT #3, #357 or 5 coarse aggregate.

(IP) GRAVEL CURB INLET SEDIMENT FILTER

PERMANENT SEEDING MIXTURE

DISTURBED AREAS SHALL BE PERMANENTLY SEEDDED WITHIN SEVEN (7) DAYS OF ACHIEVING FINAL GRADE, OR ON DISTURBED AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE WITHIN ONE YEAR.

TYPE A

03/15 TO 05/15 OR 08/16 TO 10/31
ANNUAL RYEGRASS @ 20 LB / ACRE
RED TOP @ 2 LB / ACRE
KY 31 FESCUE @ 150 LB / ACRE

05/16 TO 08/15
FOXTAIL MILLET @ 20 LB / ACRE
RED TOP @ 20 LB / ACRE
KY 31 FESCUE @ 150 LB / ACRE

11/01 TO 02/28
WINTER RYE @ 20 LB / ACRE
RED TOP @ 20 LB / ACRE
KY 31 FESCUE @ 150 LB / ACRE

LIME 4,000 LB / ACRE PULVERIZED AGRICULTURAL LIMESTONE
FERTILIZER 10-20-10 @ 1,000 LB / ACRE

MULCH

SHALL BE USED OVER ALL SEEDED AREAS AND SHALL BE APPLIED IN STRICT ACCORDANCE WITH STANDARD AND SPECIFICATION 3.35 OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.

SOIL CONDITIONING

INCORPORATION OF LIME AND FERTILIZER, SELECTION OF CERTIFIED SEED, MULCHING, MAINTENANCE OF NEW SEEDINGS, AND RESEEDING SHALL BE IN ACCORDANCE WITH SPECIFICATIONS CONTAINED WITHIN THE VIRGINIA SOIL EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION. ADDITIONAL SEEDING TO BE PERFORMED AS REQUIRED BY THE CITY ENGINEER.

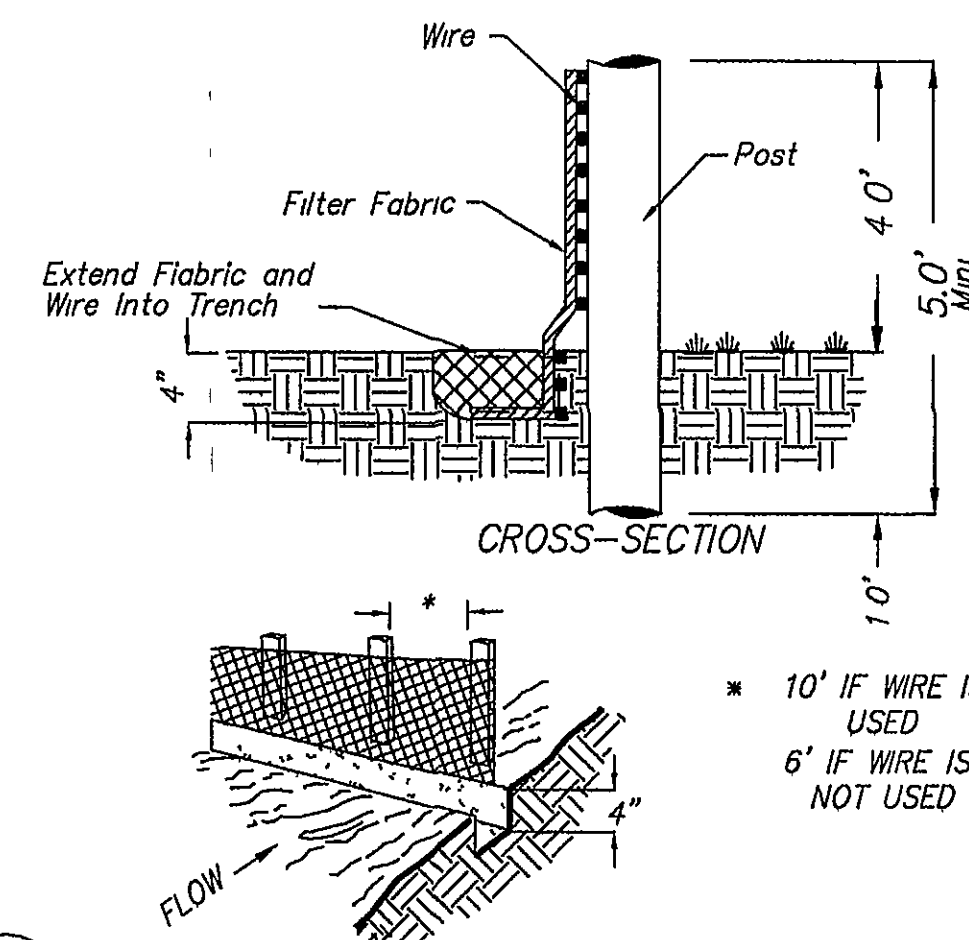
SEED APPLICATION: APPLY SEED UNIFORMLY WITH A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER ON A FIRM, FRIABLE, SEEDBED. MAXIMUM SEEDING DEPTH SHALL BE 1/4 INCH.

TYPE B (SLOPES 3:1 OR STEEPER)

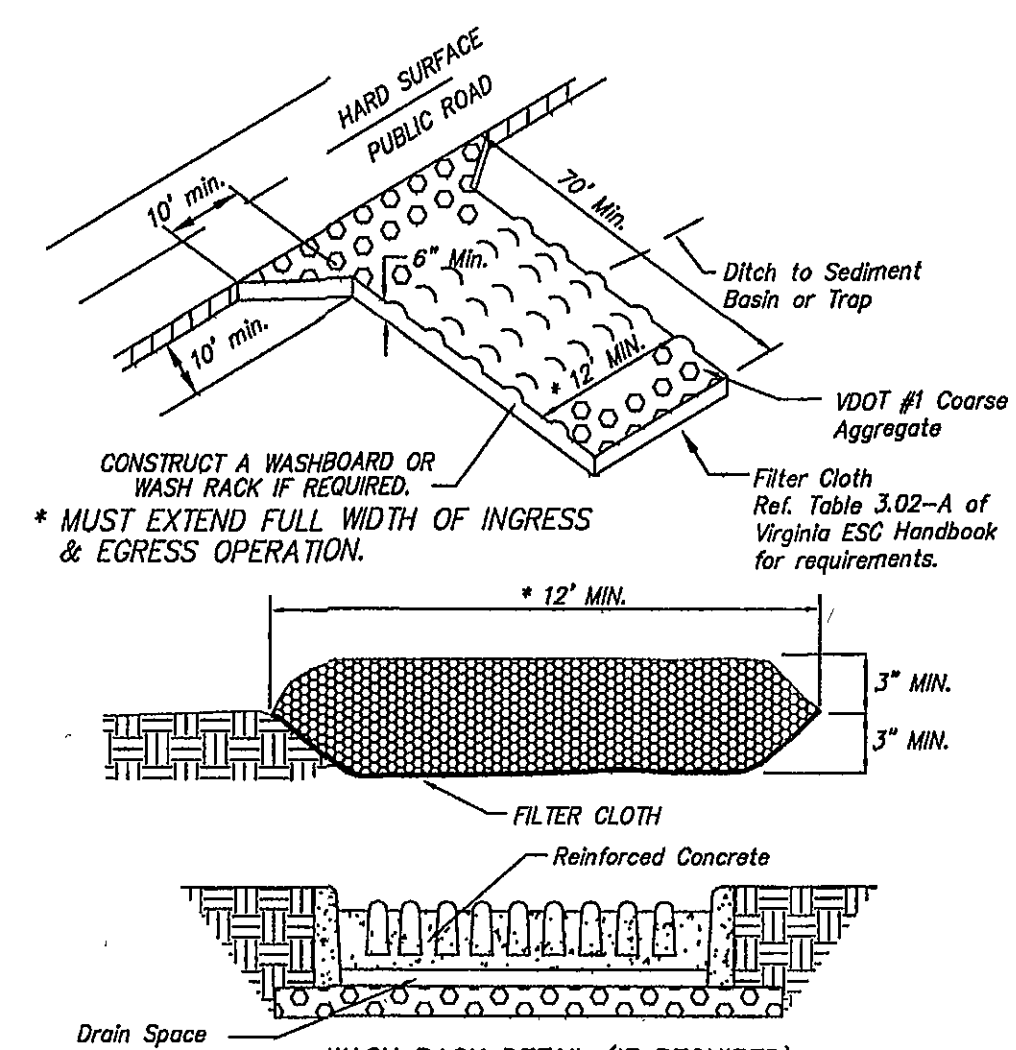
03/15 TO 05/15 OR 08/16 TO 10/31
CROWN VETCH @ 20 LB / ACRE
FOXTAIL MILLET @ 20 LB / ACRE
ANNUAL RYEGRASS @ 20 LB / ACRE
RED TOP @ 20 LB / ACRE
KY 31 FESCUE @ 108 LB / ACRE

05/16 TO 08/15
CROWN VETCH @ 20 LB / ACRE
FOXTAIL MILLET @ 20 LB / ACRE
RED TOP @ 20 LB / ACRE
KY 31 FESCUE @ 108 LB / ACRE

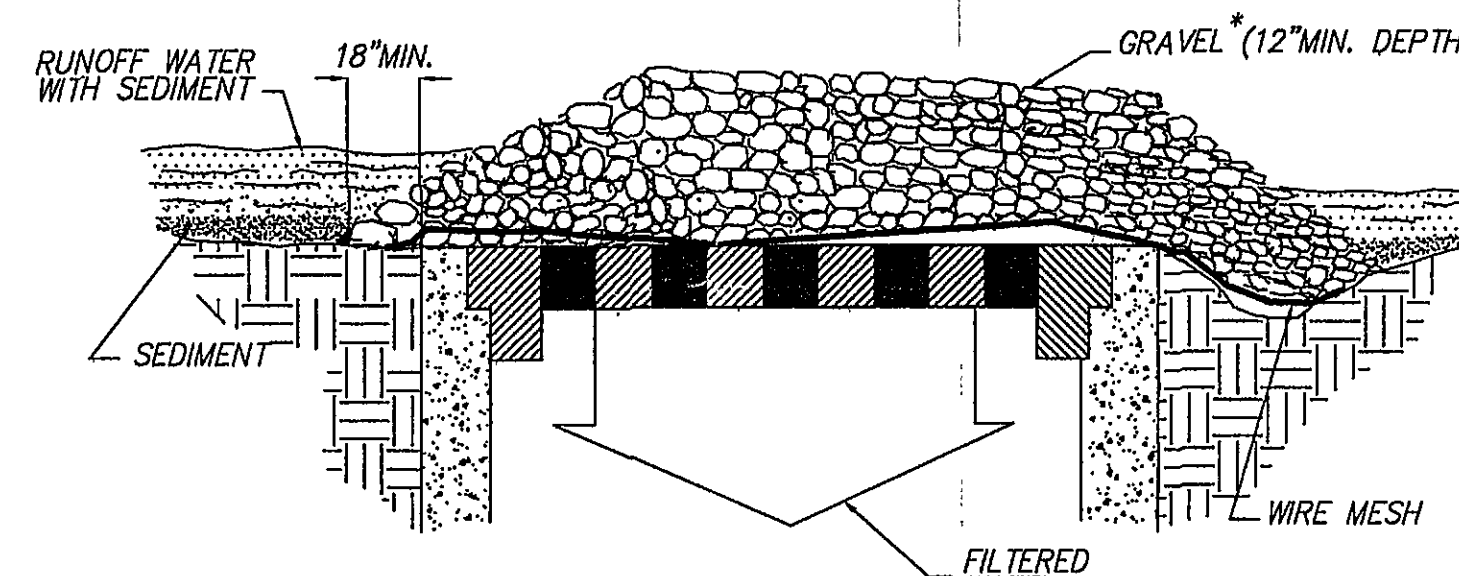
11/01 TO 02/28
CROWN VETCH @ 20 LB / ACRE
WINTER RYE @ 20 LB / ACRE
RED TOP @ 20 LB / ACRE
KY 31 FESCUE @ 108 LB / ACRE



(SF) CONSTRUCTION OF A SILT FENCE



(CE) TEMPORARY GRAVEL CONSTRUCTION ENTRANCE



SPECIFIC APPLICATION

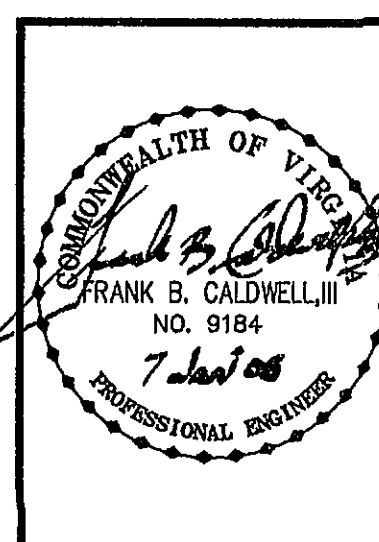
This method of inlet protection is applicable where heavy concentrated flows are expected, but not where ponding around the structure might cause excessive inconvenience or damage to adjacent structures and unprotected areas.

* Gravel shall be VDOT #3, #357 or #5 coarse aggregate.

(IP) GRAVEL AND WIRE MESH DROP INLET SEDIMENT FILTER

CITY OF RKE COMMENTS	CITY OF RKE COMMENTS	APPR. PLANS
JTK	JTK	JTK
11/17/07	12/19/07	1/7/08
1	2	3
mark	date	revisions

date	project	designed	drawn	checked
SEPT. 14, 2007	06-0059	JTK	JTK	FBC



project ROANOKE WILLIAMSON ROAD FIRE STATION
CITY OF ROANOKE
215 CHURCH AVE SW, ROOM 350, ROANOKE VA 24011
drawing
SITE NOTES AND CONSTRUCTION DETAILS

sheet
C-6
of 7

CWA
CALDWELL WHITE ASSOCIATES
ENGINEERS / SURVEYORS / PLANNERS
4803 MELROSE AVENUE, N.W.
P.O. BOX 6580
ROANOKE, VIRGINIA 24017-0580
(540) 968-5400
FAX: (540) 968-8702